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U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS
Washington

(April 1, 1937)

Letter
Circular
LC492
(Supersedes
LC399)

WEIGHTS AND MEASURES PUBLICATIONS OF GENERAL INTEREST

There are listed below some of the weights and measures publications of the National Bureau of Standards, selected for their interest to the non-technical reader and for their usefulness to teachers and students in pursuing elementary weights and measures studies. Letter Circulars LC376 and LC492 are obtainable free on request to the Bureau. The remaining publications are obtainable only by purchase at the prices indicated. Orders should be sent direct to the Superintendent of Documents, Government Printing Office, Washington, D. C., accompanied by postal money order, express order, or New York draft payable to his order. Remittance in currency will be at sender's risk.

Copies of these publications are available in many public libraries in large cities and in the libraries of universities and colleges throughout the country, which, as Government depositories, receive copies of the Bureau's publications with the understanding that they will be kept available for free consultation. Most of these Government depositories also have on file a complete list of the National Bureau of Standards' publications (Circular C24 and supplements).

Serial letters are used to designate the several series of Bureau publications:

S = "Scientific Paper" H = "Handbook"

C = "Circular" M = "Miscellaneous Publication"

LC = "Letter Circular"

Series Price Title

\$535 5¢ A fundamental basis for measurements of length. H. W. Bearce. Sci. Pap. BS 21, 395 (1926-27). Discusses the relation between the units of length of the United States and Great Britain and suggests that the yard and meter be defined in terms of light waves in such a way that a simple relation will result.

C19 15¢ Standard density and volumetric tables. Cir. BS, C19 (6th ed.) (1924). Contains tables of standard densities for various common liquids, such as water, alcohol, petroleum oils, milk, and sugar solutions.

<u>Series</u>	<u>Price</u>	<u>Title</u>
C31	20¢	Copper wire tables. Cir. BS, C31 (3d ed.) (1914). Gives tables in terms of the international standard values for the electrical resistivity, temperature coefficients, and density of copper; a brief history of the development of wire gages; trend of practice; and a detailed consideration of the American wire gage.
C67	5¢	Wire gages. Cir. BS, C67 (1918). A table combining in one series the sizes in the American, Birmingham (Stubs'), British Standard, Steel, and metric wire gages, arranged in order of diameters of wires. Gives the diameters of all the gage numbers in these five systems in mils, inches and millimeters, also the cross sections in square mils, circular mils, square inches, and square millimeters.
C71	5¢	Rules and regulations promulgated under authority of the Federal standard barrel law. Cir. BS, C71 (1917). Relating to the standard barrel for fruits, vegetables, and other dry commodities, with text of the law.
C328	10¢	Testing of measuring tapes at the Bureau of Standards. Cir. BS, C328 (1927).
C332	10¢	Testing of line standards of length. Cir. BS, C332 (1927).
C392	15¢	Testing of timepieces. Ralph E. Gould. Cir. BS, C392 (1931).
C402	5¢	Sundials. Ralph E. Gould. Cir. BS, C402 (1933). Gives directions for the construction of a horizontal sundial, with equation of time and bibliography.
C406	5¢	Standard time throughout the world. Ralph E. Gould. Cir. NBS, C406 (1935). Gives a brief historical sketch of the development of the standard time system, time zone maps of the United States and of the world, a list of stations transmitting radio time signals, and other general information regarding standard time.
H11	70¢	Weights and measures administration. Ralph W. Smith. Handb. BS, H11 (1927). General treatment of the subject of weights and measures supervision. Includes model State law on weights and measures and recommendations for standards and equipment. (Bound in cloth.)

Series	Price	Title
M3	30¢	The international metric system. Misc. Pub. BS, M3 (1936). Chart giving graphic comparisons between the units of the metric system and the customary system of weights and measures. (Size, 28 1/2 by 44 inches, printed in colors.)
M20	\$2.30	Federal and State laws relating to weights and measures. William Parry. Misc. Pub. BS, M20 (3d ed.) (1926). A compilation (796 pages) of the weights and measures laws of the Federal Government, the various States, territories, and insular possessions.
M49	5¢	Graphic comparison of screw thread pitches. H. W. Bearce. Misc. Pub. BS, M49 (1922). Gives a graphic and also a tabular comparison of common screw thread pitches - threads per inch and corresponding pitch in millimeters, and common metric pitches and corresponding threads per inch.
M64	15¢	History of the standard weights and measures of the United States. Louis A. Fischer. Misc. Pub. BS, M64 (1925). (Illustrated.)
M84	10¢	Standard time conversion chart. Ralph E. Gould. Misc. Pub. BS, M84 (1931). Time at any other part of the earth may be read directly from the chart. (Heavy cardboard with movable disk: size, 8 by 10 1/2 inches.)
M103	10¢	Weights and measures references. Ralph W. Smith. Misc. Pub. BS, M103 (1930). Contains references to published material relating to weights and measures standards and administration, including an index to the reports of the National Conferences on Weights and Measures, from the first to the twenty-first, inclusive.
M104	10¢	Testing equipment for large capacity scales for the use of weights and measures officials. Ralph W. Smith. Misc. Pub. BS, M104 (1930).
M121	15¢	Units of weight and measure - definitions and tables of equivalents. Misc. Pub. NBS, M121 (1936). Contains tables of interrelation of units of measurement in the customary and metric systems; also shows graphic comparison of screw thread pitches.
M122	5¢	Weights and measures in Congress. Sarah Ann Jones. Misc. Pub. NBS, M122 (1936). Presents a chronological account up to 1838 of the steps taken to secure uniformity in weights and measures in the United States, including an historical summary of proposals made in or to Congress on the subject.

<u>Series</u>	<u>Price</u>	<u>Title</u>
M135	56	International metric system of weights and measures. Misc. Pub. BS, M135 (1932). Gives a synopsis of the system showing the derivation of the primary units, their interrelation, the method of forming the multiples and submultiples, the abbreviations used, comparisons of the units with those of our customary system of weights and measures, and tables of equivalents from 1 through 9. The status of the metric system in the United States is shown by Congressional enactments and departmental orders.
M141	206	Report of the National Screw Thread Commission. Misc. Pub. BS, M141 (Revised 1933). Contains the final recommendations of the Commission, including a complete classification of screw thread fits for the National Coarse and National Fine thread series, for an 8-pitch, 12-pitch, 16-pitch, and for threads of special diameters, pitches and lengths of engagement. Also contains specifications and tolerances for National Fire Hose Threads, small hose threads, threads for cutting and welding torches, and information on limit gages and the fundamentals of gaging practice.
M155	106	Time zone map of the United States and adjacent parts of Canada and Mexico. Misc. Pub. NBS, M155 (Revised 1936). Printed in light blue on white background; the locations of the cities are indicated in black lettering and the time-zone boundary lines appear in red. (Size, 20 by 30 inches.)

The following eighteen Miscellaneous Publications, representing the available reports of the National Conferences on weights and measures, attended by representatives of the various States, and held at the National Bureau of Standards in the years indicated, may be obtained from the Superintendent of Documents. For further information see Miscellaneous Publication M103.

<u>Series</u>	<u>Year</u>	<u>Price</u>	<u>Series</u>	<u>Year</u>	<u>Price</u>
M7	1908	15¢	M59	1924	35¢
M3	1910	15¢	M70	1925	50¢
M12	1914	20¢	M74	1926	60¢
M14	1916	35¢	M80	1927	45¢
M41	1919	20¢	M87	1928	35¢
M43	1920	20¢	M101	1929	30¢
M48	1921	20¢	M116	1930	35¢
M51	1922	15¢	M129	1931	50¢
M55	1923	30¢	M157	1936	20¢

<u>Series</u>	<u>Price</u>	<u>Title</u>
LC376	Free.	Metric and English distance equivalents for athletic events (track and field). The Amateur Athletic Union (233 Broadway, New York, N. Y.) has officially adopted the metric units for setting up distances for track events. This letter circular gives the yard distances of the principal track events. It also gives metric equivalents of yards, feet, inches, and fractions of an inch which may be used in converting distances attained in field events from one system of measurement to the other. (1933)
LC449	Free.	Standards of length, mass, and time. Contains general information on the subjects of length, mass and time. (1935)

